

JP 4327213

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Core-sheath type composite fibre - has polyamide core and polyphenylene sulphide sheath

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Patent Family:

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Abstract (Basic): JP 4327213 A

Fibre comprises a polyamide in the core component and a modified polyphenylene sulphide in the sheath component. The modified polyphenylene sulphide is obtained with reacting 0.05-10 wt.% of carboxylic anhydride to polyphenylene sulphide. The polyamide of the core component occupies 80-25 wt.% of whole the composite fibre. Whole of the surface of the fibre is formed with above modified polyphenylene sulphide (PPS).

Esp. pref. polyamide is polycapramide and polyhexamethylene adipamide. The polyamide has relative viscosity of pref. more than 2.8, esp. pref. more than 3.0. Pref. PPS is linear having melt flow rate of 10-600. The carboxylic anhydride is e.g., maleic anhydride.

USE/ADVANTAGE - The core sheath type composite fibre is useful for an industrial fibre, esp. bag filter scrim ground fabric, motor knot braid, motor binder tape and fibre for reinforcing rubber. Since PPS fully covers the outside of the fibre, it has excellent heat resistance and chemical resistance. Since almost tension applied the fibre is received in the core component, the fibre has high strength, high elongation and excellent mechanical property.

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